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# SAMSUNG





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BP68-00142A-02

DLPTV

DLPTV

#### INSTRUCTION MANUAL HLN467W/HLN567W/HLN4365W/HLN5065W/HLN437W HLN507W/HLN617W

# Safety Instructions





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates high voltage is present. It is dangerous to make any kind of contact with any part inside this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

CAUTION: FCC/CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

CAUTION: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.

ATTENTION: Pour eviter les chocs electriques, introduire la lame le plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

Note to CATV system installer: This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as possible.

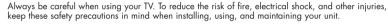
Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws. Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these laws.

To prevent damage which may result in fire or electric shock, do not expose this appliance to rain or moisture.

# Thank You for Choosing Samsung

Thank you for choosing Samsung! Your new Samsung projection TV represents the latest in television technology. We designed it with easy-to-use on-screen menus and closed captioning capabilities, making it one of the best products in its class. We are proud to offer you a product that will provide convenient, dependable service and enjoyment for years to come.

# **Important Safety Information**



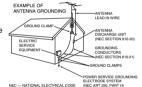
- Read all safety and operating instructions before operating your TV.
- Keep the safety and operating instructions for future reference
- Heed all warnings on the TV and in the operating instructions.
- Unplug the TV from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.
- Never add any attachments and/or equipment without approval of the manufacturer. Such
  additions can increase the risk of fire, electric shock, or other personal injury.
- Do not use the TV where contact with water is possible, such as near bath tubs, sinks, washing machines, swimming pools, etc.
- Do not place the TV on an unstable cart, stand, tripod, bracket, or table where
  it can fall. A falling TV can cause serious injury to a child or adult, and serious
  damage to the appliance. Use only with a cart, stand, tripod, bracket, or table
  recommended by the manufacturer or sold with the TV. Follow the
  manufacturer's instructions when mounting the unit, and use a mounting
  accessory recommended by the manufacturer. Move the TV and cart with care.
  Quick stops, excessive force, and uneven surfaces can make the unit and cart
  unsteady and more likely to overturn.



- The TV is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block
  these openings with any object, and do not put the TV on a bed, sofa, rug, or other similar surface. Do
  not put the TV near a radiator or heat register. If you do put the TV on a rack or
  bookcase, make sure that there is adequate ventilation and that you've followed the manufacturer's
  instructions for mounting.
- Operate your TV only from the type of power source indicated on the marking label. If you are not sure
  of the type of power supplied to your home, consult your appliance dealer or local power company.
- Use only a grounded or polarized outlet. For your safety, this TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact an electrician to replace your outlet.

# **Safety Instructions**

- Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at pluas, convenience receptacles, and the point where they exit from the unit.
- Unplug the TV from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit from lightning and power-line surges.
- Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.
- Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.
- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the TV.
- Ground outdoor antennas. If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the arounding electrode.



- Do not attempt to service the TV yourself. Refer all servicing to gualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel when:
  - The power-supply cord or plug is damaged
  - Liquid has been spilled on the unit or if objects have fallen into the unit
  - The TV has been exposed to rain or water
  - The TV does not operate normally by following the operating instructions
  - The TV has been dropped or the cabinet has been damaged
  - The TV exhibits a distinct degradation in performance
  - When the LAMP(BULB ONLY) replacement is needed
- If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a gualified technician to restore the TV to normal.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.
- Upon completion of any service or repairs to this TV, ask the service technician to perform safety checks to determine that the TV is in a safe operating condition.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference, and
 This device must accept any interference that may cause undesired operation.

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

# **FCC** Information

#### User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates. uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult your dealer or an experienced

radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

#### Warning

User must use shielded signal interface cables to maintain FCC compliance for the product. Declaration of conformity for products marked with FCC Logo. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The party responsible for product compliance: SAMSUNG ELECTRONICS CO., LTD America QA Lab of Samsung 85 West Tasman Drive San Jose, CA 95134 USA Tel) 408-544-5124 Fax) 408-544-5191 Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating. For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6015P type (tandem blades) plug cap.

#### **IC Compliance Notice**

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

#### Notice de Conformité IC

Cet appareil numérique de classe B respecte toutes les exigences du Règlement ICES-003 sur les équipements produisant des interférences au Canada.

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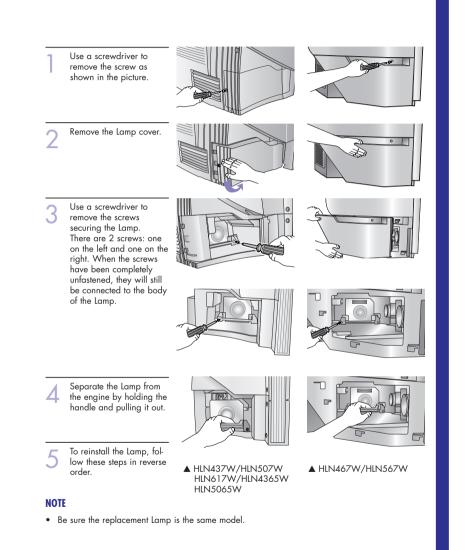
# Your New Wide TV

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# **Replacing the Lamp**

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- A Projection TV lamp is a consumable item, and should be replaced from time to time for best projector operation. If the screen image becomes dark, or timer, lamp and Temp LEDs flicker off at the same time, you may have to replace the lamp.
- When changing the lamp, you should first verify the type/model, and then use only the correct lamp replacement. The code for lamp regulation and usage is marked on the label. If you remove the lamp, you can identify this replacement code. You should only replace the lamp with the one of the same regulation code.
- If you wish to buy a new lamp, please phone your Service Center or a nearby TV dealer, and tell them the model of your projection unit.
- You can identify the lamp type on the left side of TV and the lamp cover.
- The TV will be damaged if you use a lamp that is different from the original supplied by the manufacturer.
- Please don't remove the lamp except when replacing with a new one.
- Please turn off TV power before changing a lamp and then unplug after waiting 1 minute.
- The cooling fan will help cool the lamp so you can safely remove it. The surface of the Lamp is very hot. Please wait for 30 minutes after turning off your projection TV to handle the lamp.
- Please keep the old lamp away from flammable articles and children. Dispose of properly.
- Don't allow dirt or dust to accumulate inside the lamp cover or on the Lamp.
- A dirty cover or lamp can catch fire, explode and cause electric shock.
- Please don't touch the front glass of a new lamp or the glass of the lamp container.
- If a new lamp is improperly handled, the quality of the screen image can be affected and the expected life span of the lamp can be reduced.
- Be sure to tighten the lamp cover on the TV after changing the lamp. Note that the TV will not function
  if the lamp cover is not securely attached. Please tighten the holding screw on the lamp cover after it
  has been attached to the TV.



# List of Features

Your TV was designed and engineered using the latest technology. It is a full-featured, high-performance unit that exceeds industry standards. In addition, it has these special features:

- Easy-to-operate remote control
- Easy-to-use on-screen menu system you can access from the side panel or remote control
- Automatic timer to turn the TV on and off at any time you choose
- Adjustable picture and sound settings and the ability to memorize your favorite settings
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer
- Picture-in-Picture capability that lets you watch two channels at once
- Widescreen TV with adjustable image size

# **Checking Parts**

Once you have unpacked your TV, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.



Television

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AAA Batteries War (4301-000121) Ca



A/V Cable (AA39-40001B)



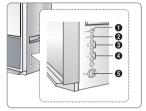
This

Manual



The buttons on the side panel control your TV's basic features, including the on-screen menu system. To use the more advanced features, you must use the remote control.

◄ HLN617W





Press to switch between viewing TV programs and signals from connected

Press to change channels and move between items on the on-screen menu.

Press to lower or raise the volume and to select items when using the on-

TV/VIDEO

components

Press to see the on-screen menu.

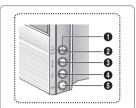
Press to turn the TV on and off

O VOLUME +. -

screen menu

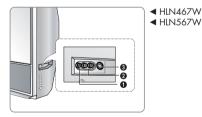
**6** POWER

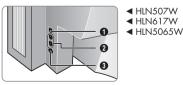
**6** MENU

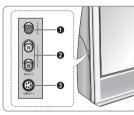


# Side Panel Jacks

Use the side panel jacks to connect a component that is used only occasionally (a camcorder or video game, for example).







VIDEO Input jack
 Connect the video signal from a camcorder or video game

- AUDIO Input jacks Connect the audio signal from a camcorder or video game.
- S-VIDEO Input jack Connect an S-video signal from a camcorder or video game. (S-Video 3 jack and Audio L/R input 3 are used in conjunction.)



◄ HLN437W

◀ HLN507W

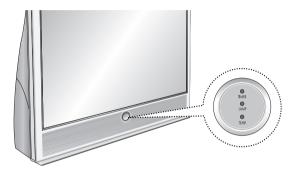
◄ HLN4365W

◀ HLN5065W



# Front Panel LED Indicators

The three lights on the front panel indicate the status of your TV.



#### **Indicator Light Key**

- : Light is On
- Light is BlinkingLight is Off

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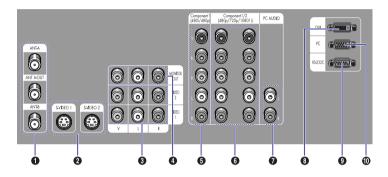
Timer	Lamp	Temp	Indication	
•	0	0	to Timer ON/OFF has been set	
0	•	0	ndby state. 9 picture will automatically appear in about 25 seconds.	
•	•	0	suto Timer ON/OFF has been set and the set will automatically be turned on in bout 25 seconds.	
•	0	0	cooling fan inside the set is not operating normally.	
0	0	0	amp cover on rear of the set is not properly shut.	
0	0	0	Check if the ventilation hole on the rear of the set is blocked, because if the inner temperature is too high, the power will shut off.	
0	0	0	Lamp may be defective. Please contact a certified technician.	

It takes about 30 seconds for the TV to warm up, so normal brightness may not appear immediately.
The TV has a fan to keep the inside lamp from overheating. You'll occasionally hear it working.

# **Rear Panel Jacks**

Use the rear panel jacks to connect components such as a VCR.

You can connect two different components such as two VCRs, Set-Top Box and a DVD player etc., because there are two sets of video input jacks and one set of component video input jacks on the rear panel of your TV. For more information, please see "Connections".



#### ANTENNA terminals

Two independent cables or antennas can be connected to these terminals. Use ANT-A and ANT-B terminals to receive a signal from VHF/UHF antennas or your cable system. Use the ANT A-OUT terminal to send the signal being received by the ANT-A terminal out to another component (such as a Cable Set Top Box). The PIP channel can be received only when a signal source is connected to ANT-A.

- S-VIDEO INPUT jacks Connects an S-Video signal from an S-VHS VCR or DVD player.
- VIDEO/AUDIO INPUT jacks(VCR1, VCR2) Connect video/audio signals from external sources, such as a VCR or DVD players.
- VIDEO/AUDIO MONITOR OUTPUT jacks
  Sends a video signal from the TV to an external source, such as a
  VCR.
  Note: Monitor Out is available only in RF, Video and S-Video modes.

- O component 1 jacks (Y, Pb, Pr, L, R) Use these jacks to connect the component video/audio signals from a DVD player when using the component video input jacks. Note: Only 480i and 408p formats are supported.
- Component 2, 3 jacks (Y, Pb, Pr, L, R) Receives the DTV video/audio signals from a set top box. Note: Only 480p, 720p and 1080i formats are supported.

PC AUDIO INPUT jacks Connect these to the audio-output jacks on your PC.

OVI (Digital Video Interface) jack Receives the digital signals from a set top box or PC etc.

RS-232C jack

PC VIDEO INPUT jack Connect to the video output port on your PC.

## Remote Control

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV. The remote control can also operate your VCR, cable box, and DVD player.

- 1. POWER Turns the TV on and off
- 2. +100 Press to select cable channels over 100 on τv
- 3. Menu Displays the main on-screen menu.
- 4. CH(Channel) and VOL(Volume) Controls volume, channel selection
- 5. Mute Press to mute the TV sound.
- 6. Display Press to display information on the TV screen.
- 7. Aspect Press to change the screen size.
- 8. DI Surround Press to hear the Dolby surround effect.
- 9. MTS(Multichannel **Television Stereo**) Press to choose stereo, mono or Separate Audio Program (SAP broadcast).
- 10. Mode Selects a target device to be controlled by the Samsung remote control (i.e., TV, VCR, Cable, or DVD).
- 11. Pre-ch Tunes to the previous channel.
- 12. TV/Video Press to display all of the available video
- 13. Joystick Use to highlight on-screen menu items and chanae menu values.
- 14. DNIe enaine).
- 15. PIP

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- sources (i.e., TV, VCR, DVD, DTV, PC).
- Activates DNIe (Digital Natural Image
- Activates picture in picture.

- Press to stop the action during a particular scene. Press again to resume normal video. 17. Fav.CH (Favorite Channel) Press to switch between your favorite channole 18. S.Mode
- Adjust the TV sound by selecting one of the preset factory settings (or select your per-sonal, customized sound settings.) 19. P.Mode

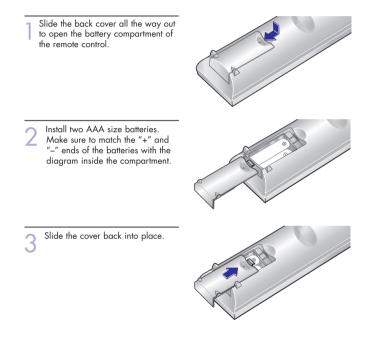
16. Still

- Adjust the TV picture by selecting one of the preset factory settings (or select your per-sonal, customized picture settings.)
- 20. VCR controls Controls VCR tape functions: Rewind, Play, Fast Forward, Stop, Pause.
- 21. PIP controls Source ; Press to select one of the available signal sources for the PIP window.
- Scan; Press to scan the memorized channels. Locate; Press to move the PIP window to
- any of the four corners of the TV screen. Swap; Exchanges the video signal that is currently displayed on the main screen with
- the signal in the PIP window. Size; Press to make the PIP window larger or smaller.
- CH(PIP); Displays the available channels in sequence. (These buttons change channels in the PIP window only.)
- 22. V.chip Press to set up and activate the parental locks
- 23. Set Used during set up of this remote control. so that it will work compatibly with other devices (VCR, cable box, DVD, etc.)
- 24. Sleep Press to select a preset time interval for automatic shutoff.
- 25. Add/Erase Press to add or erase channels in the TV's memory Use the Add/Erase button to memorize/erase the fine tuning after fine tuning channels.



#### Installing Batteries in the Remote Control

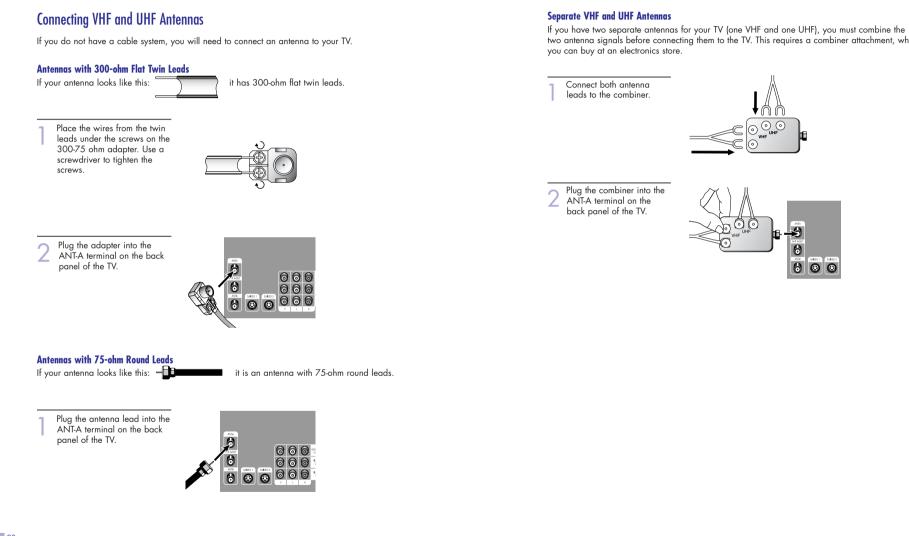
With normal use, the batteries in the remote control should last about a year. If you notice a performance degradation while using the remote, the batteries may need to be replaced. Make sure you replace both batteries and do not mix old and new batteries in the remote control. If you won't be using the remote control for a long time, remove the batteries and store them in a cool dry place.



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# **Connections**

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two antenna signals before connecting them to the TV. This requires a combiner attachment, which

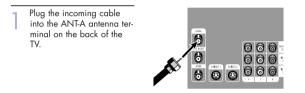
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# **Connecting Cable TV and VCR**

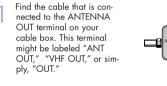
You can connect different cable systems to your TV, including cable without a cable box, and cable with a cable box that descrambles some or all channels.

#### Cable without a Cable Box

If you want to connect cable, and you do not need to use a cable box:



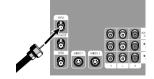
#### Cable with a Cable Box that Descrambles All Channels





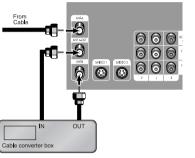
Connect the other end of this cable to the ANT A antenna terminal on the back of the TV.

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#### **Connecting a Cable Converter Box**

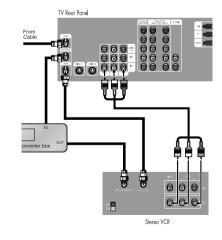
This connection allows you to watch cable and premium channels. You should keep your TV selected to ANT-A so that you can use the TV features. When viewing premium channels, select ANT-B and tune the TV to channel 3 or 4 (whichever channel is vacant in your area), then use the converter box to change channels. You will need two coaxial cables.



Note: When you use a converter box with your TV, there may be features that you can not program using the remote control, such as programming your favorite channels and blocking channels.

#### Connecting a Cable Converter Box and a VCR

This connection allows you to watch and record basic and premium cable channels, as well as watch videotapes. You should keep your TV selected to ANT-A so that you can use the TV's features. When viewing premium channels or recording with the VCR, select ANT-B (whichever channel is vacant in your area), then use the converter box to change channels.



Caution: If you want to record one channel while watching another channel, a splitter (not included) must be added between the cable and ANT-A. One output of the splitter goes to ANT-A and the second output is connected to IN on the cable converter box.

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

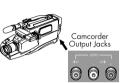
If you have a S-VHS VCR, use the S-video connections and remove the video cable. Do not connect the video cable and the S-video cable to video1 simultaneously.

When you use a converter box with your TV there may be features that you can not program using the remote control, such as programming your favorite channels and blocking channels.

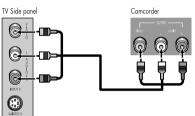
# **Connecting a Camcorder**

The side panel jacks on your TV make it easy to connect a camcorder to your TV. You can use your camcorder to view tapes without using a VCR.

Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.



- Connect an audio cable between the AUDIO OUT-PUT jack on the camcorder and the AUDIO terminals on the side of the TV. If your camcorder is stereo, you must connect two separate cables. (The audio cables are usually included with the camcorder.)
- 3 Connect a video cable between the VIDEO OUT-PUT jack on the camcorder and the VIDEO terminal on the side of the TV. (A video cable is usually included with the camcorder.) To watch a tape, follow your camera's instructions and the section on "Viewing an External Signal Source" in this manual.



# **Connecting a DVD Player**

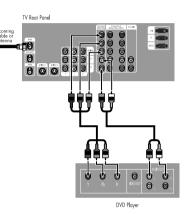
The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

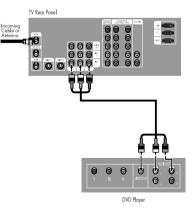
#### Connecting to Y, Pb, Pr

- Connect a set of audio cables between the Component 1 AUDIO IN jacks on the TV and the AUDIO OUT jacks on the DVD player.
- To enable Component video viewing, connect video cobles between the Component1 (Y, Pb and Pr) jacks on the TV and Y, Pb and Pr (or Y, Cb, Cr) output jacks on the DVD player.
- Note: For an explanation of Component video, see your DVD player's owner's manual.

#### Connecting to audio and video jacks

- Connect a set of audio cables between the AUDIO IN jacks on the TV and the AUDIO OUT jacks on the DVD player.
- 2 Connect video cables between the VIDEO OUT jack on the DVD player and the VIDEO IN jack on the TV.



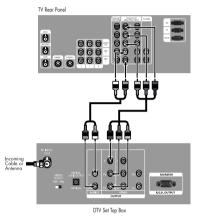


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# Connecting a DTV Set Top Box

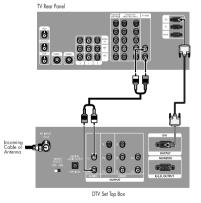
#### **Connecting to Y,Pb,Pr**

- Connect a set of audio cables between the Component2 or Component3 AUDIO IN jacks on the TV and the AUDIO OUT jacks on the Set Top Box.
- Connect video cables between the Component2 or Component3 Y, Pb and Pr inputs on the TV and Y, Pb and Pr (or Y, Cb, Cr) outputs on the Set Top Box. Note: For an explanation of Component video, see your Set Top Box owner's manual.



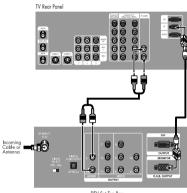
#### **Connecting to DVI (Digital Visual** Interface)

- Connect a set of audio cables between the PC AUDIO IN jacks on the TV and the AUDIO OUT jacks on the Set Top Box.
- Connect video cables between the DVI IN jack on the TV and the DVI OUT jack on the Set Top Box.



#### **Connecting to R,G,B**

- Connect a set of audio cables between the PC AUDIO IN jacks on the TV and the AUDIO OUT jacks on the Set Top Box.
- Connect video cables between the PC IN jack on the TV and the R.G.B OUT jack on the Set Top Box.





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Operation

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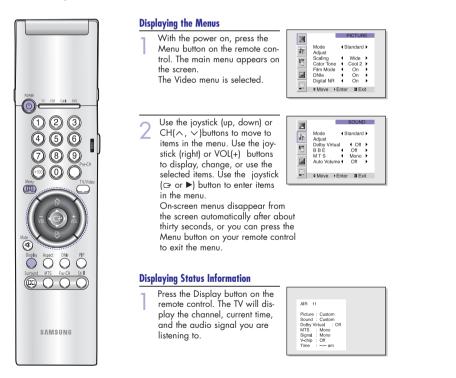
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# Turning the TV On and Off

Press the Power button on the remote control or on the side panel to turn your TV on and off. Note that audio on this product can being working before screen video.

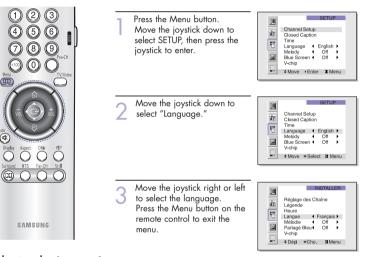
# Viewing the Menus and Displays

The on-screen menu system allows you to control the settings of your TV. Access the on-screen menu system by pressing the Menu button on the remote control. Once the on-screen menu appears, use the joystick button on your remote control to move between menu items, select menu items, and make adjustments. You can also view the on-screen menu system and make some adjustments using the TV's side panel buttons.



# Selecting the Menu Language

Choose a language for the on-screen menus: English, Spanish or French.



# Selecting the Antenna Input

You can connect to two different signal sources by choosing the antenna input(ANT A or ANT B).

- Channel Setup Closed Caption Time Meter 4 English + Blue Screen 4 Off + Blue Screen 4 Off + V-chip Move + Enter 11 Menu SETUP Press the Menu button. Move the joystick down to select SETUP, then press the joystick to enter Press the joystick to enter. The channel setup menu will appear. The first SETUP line of the menu is selected. 奜 -6
- Move the joystick right or left to select "A" or "B". Press the Menu button on the remote control to exit the menu.





# **Channel Memory**

Your TV can memorize and store all of the channels available. Once the channels are memorized, you can use the CH  $\land$  and CH  $\lor$  buttons to scan through the available channels.

#### Selecting the Broadcast Source

Before memorizing available channels, you must select what broadcast source your TV is connected to, either an antenna or a cable system.



1	Press the Menu button. Move the joystick down to select SETUP, then press the joystick to enter.	Chese Capton     Chese Capton     Chese Capton     Time     Language     English      Melody     Oft     Oft     Streen     Oft
2	Press the joystick to enter. The channel setup menu will appear. Move the joystick down to select "Air or CATV".	Anterna ( A ) Air or CATV ( AIR ) Person ( CATV ( AIR ) Auto Channel Memory Free Tune ( 0 ) Add Erase Labeling ( ) * Move +Select III Menu
3	If you are connected to an antenna, leave "AIR" dis- played. If you connected cable, press the joystick to the right to display the type of cable system: "STD," "HRC," or "IRC."	Adema A Adema Adem

(If you are not sure which type of cable system you have, contact your cable company.)

#### described on the previous page. With 華昭国 the Channel Setup menu on screen, move the joystick down to select "Auto

Press the joystick to enter. The TV will 0 begin memorizing all of the available stations. Press the VOL+ button at any time to interrupt the memorization process.

Storing Channels in Memory Automatically First, select the broadcast source as

Channel Memory."



SETUP

Antenna A A Air or CATV AIR A Favorite Channel Auto Channel Memory Fine Tune O A Add/Erase Labeling -----

+ Move + Select D Menu

U.

#### NOTE

• When the ANT B mode is selected, the auto programming runs on the main screen.

#### Adding and Erasing Channels

Use the number buttons to select the channel you want to add or erase.

To add a channel, select it and press the 0 Add/Erase button on the remote control. The channel will be added to the TV's memory and the word "Channel added" will appear in the corner of the screen.

To erase a channel, select it and then press the Add/Erase button on the remote control. The word "Channel erased" will appear in the corner of the screen. You can still view a channel that has been erased from memory by using the number buttons on the remote control to select the channel directly.





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# **Changing Channels**

You can change channels on your TV by using the CH  $\wedge$  and CH  $\vee$  buttons, or by direct selection using the number buttons. You can use the number buttons to tune to any channel (even one that has been erased or has not been memorized).



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### **Using the Channel Buttons**

Press the CH ^ or CH > buttons to change channels. The TV changes each channel in order, up or down, depending on which button you press. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were not memorized or have been erased.

#### **Using the Number Buttons**

To change to single-digit channels (0–9) faster, press "O" before the single digit. Example: For channel 4, press "O," then "4."

To select a channel over 100, press the +100 button first Example: For channel 122, press "+100," then "2," then "2."

#### **Using the Previous Channel**

Press the Pre-ch button on the remote control. The TV changes to the last channel you were watching.

#### **Scanning channels**

You can automatically scan all of the channels in memory at the touch of just one button. Press the Scan button on the remote control. The TV will change the channels automatically, one by one. Scanning channels will be displayed in the PIP window. To stop channel scan, press the Scan button again.

#### NOTE

• When the ANT B mode is selected, the channel scan function doesn't work.

# Selecting Your Favorite Channels

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You can store up to ten of your favorite channels for each available input source (such as TV and CATV). Then, when you press the Fay.CH button on the remote control, the TV displays only the favorite channels you previously stored, allowing you to quickly and easily find frequently watched channels.

To Store Your Favorite Channels:	
Press the Menu button. Move the joystick down to select SETUP, then press the joystick to enter.	Channel Setup     Channel
Press the joystick to enter. The channel setup menu will appear. Move the joystick down to select Air or CATV, then move the joystick to the right to display the type of cable system or Air.	Antonia     A       ZE     Antonia       Area or Adm A     A       Add/Erase     A       Add/Erase     A       Add/Erase     A       Add/Erase     A       Add/Erase     A
3 Move the joystick down to select "Favorite Channel", then press the joystick to enter.	Antone     A       Antone     A       Antone Channel     A       Antone Channel     A       Antone Channel     A       Labeling     A       • Move +Select ID Menu
4 Move the joystick to the left or right to select channel. Note: Only memorized chan- nels can be set as Favorite channels.	EAVORITE CHANNEL           Image: Constraint of the second
To View Your Favorite Channels:	

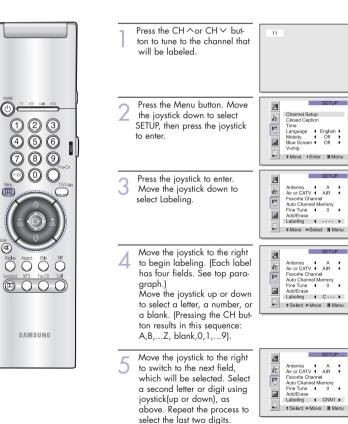
#### **To View Your Favorite Channels:**

Press the Fav.CH button repeatedly to jump from one favorite channel to another. The favorite channels are selected in ascending sequence.

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# Labeling the Channels

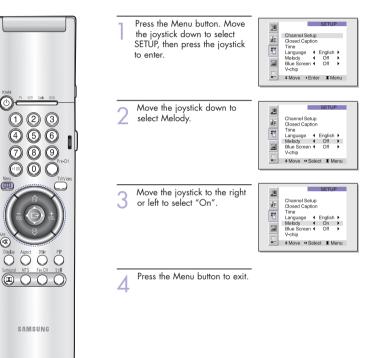
Use this feature to assign an easy-to-remember label to any channel (i.e., "CBS", "ESPN", "PBS2", CNN1", etc.) A label consists of four fields, where each field is a letter, a number, or a blank. When the DISPLAY button is pressed, the channel label will appear next to the channel number.



Press the Menu button to exit.

# Setting The On/Off Melody

You can hear clear melody sound when the TV is powered On or Off.



# **Picture Control**

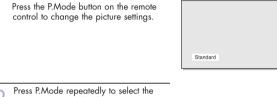
Using the remote, you can change the contrast, brightness, tint, color, and sharpness settings of the TV.



Custo	mizing the Picture	_
1	Press the Menu button. Press the joystick to enter.	Image: Standard >         Picture           Adjust         4 Standard >           Adjust         Scaling          Wide >           Scaling          Wide >         Col 2 >           Film Mode          On >         Digital NR          On >           ■         Move <
2	Move the joystick down to select Adjust, then press the joystick to enter. You will see the items "Contrast", "Brightness", "Sharpness", "Color" and "Tint".	Mode : Custom Contrast Brightness Color
3	Move the joystick up or down to select the item you want to change.	
4	Move the joystick right or left to raise or lower the value of the item, using the on-screen gauge as your guide.	Contrast 80

When you are finished adjusting an item, wait a moment. The level indicator will disappear and the Video menu will return. You can continue to make adjustments, or press the Menu button to exit.

#### Using Automatic ("Standard") Picture Settings



2 Press P.Mode repeatedly to select the "Dynamic", "Standard", "Movie" or "Custom" picture setting.

#### Guide to Automatic Picture Settings

- Choose Standard to set the TV to operate at top performance according to your TV's specifications.
- Choose Dynamic for viewing the TV during the day or when there is bright light in the room.

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- Choose Movie when viewing the movie.
- Choose Custom if you want to adjust the settings yourself.

# Sound Control

You can control and customize the sound levels and settings of the TV with the remote control. Using the on-screen menus, you can change the TV's bass, treble, and balance settings.

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Adjusting the Volume Press VOL + to raise the volume or VOL - to lower the volume.

#### Using the Mute Button

Press the Mute button on the remote control to silence the volume. The word "Mute" will appear in the lower left corner of the screen.

To turn mute off, press the Mute button again, or raise or lower the volume with the VOL – and VOL + buttons.

#### **Customizing the Sound**

Press the Menu button. Move the joystick down to select SOUND, then press the joystick to enter.

 Mode
 Standard >

 Aduat
 Aduat

 Aduat
 Off >

 BB
 Off >

 Mode
 Off >

 Aduat
 Off >

 BB
 Off >

 Auto Volume
 Off >

 Auto Volume
 Off >

 Other Select
 Exit

Move the joystick down to select Adjust, then press the joystick to enter. You will see the items "Bass", "Treble" or "Balance".



Continued...

3 Move the joystick up or down to select the item you want to change.



Move the joystick right or left to raise or lower the value of the item, using the onscreen gauge as your guide.

You can continue to make adjustments, or press the Menu button to exit.

#### Using Automatic(Standard) Sound Settings

Press the S.Mode button on the remote control to change the automatic sound setting.



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Press the S.Mode button again to select the "Standard", "Music", "Movie", "Speech" or "Custom" sound setting.

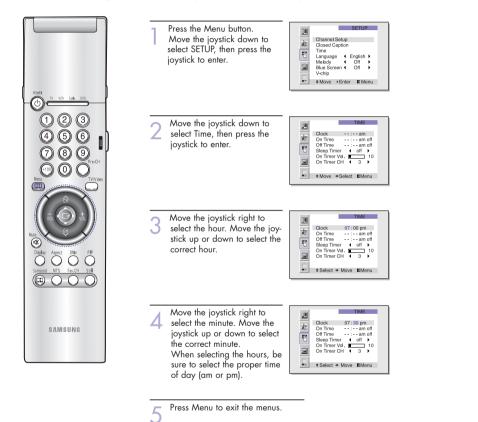
#### Guide to Automatic Sound Settings

- Choose Standard for the "factory" settings (the best choice for most people).
- Choose Music when watching music videos or concerts.
- Choose Movie when watching a movie.
- Choose Speech when watching a show that is mostly dialogue, like a news show.
- · Choose Custom if you want to adjust the settings yourself.

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# Setting the Clock

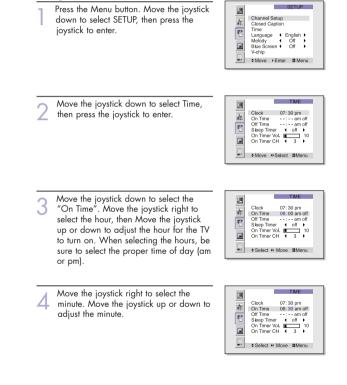
This TV has a built-in clock that will appear on screen when you press the Display button on the remote control. Setting this clock also allows you to use it to automatically turn the TV on or off.



# Setting the Timers

This TV can be set to turn on or off automatically at specific times that you choose. Before using the timers, you must set the TV's clock, as described previously.

#### Setting the On/Off Timer



Continued...

Move the joystick right to select off, then move the joystick up or down to select "on". When any of the timers are set, the "Timer" LÉD will illuminate (front or side panel of TV.).



When you are finished, move the joystick right.

- If you want to set the Off time, move the TIME joystick down to select the "Off Time". 
   Clock
   07: 30 pm

   On Time
   06: 30 am on

   Off Time
   --: -- am off

   Sleep Timer
   off +

   On Timer Vol.
   10

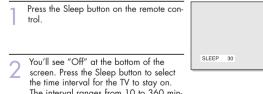
   On Timer CH
   3 +
   華 Set the "Off Time" just as you set the "On Time".
- If you want to set the volume level or <u>m</u> channel when the TV turns on, move the joystick down to select "On Timer Vol." or "On Timer CH". Move the joystick right to set the volume level or to select the channel you want when the TV turns on. Press the Menu button to return to normal viewing.



#### **Setting the Sleep Timer**

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You can set your TV to automatically turn off after a preset interval.



The interval ranges from 10 to 360 minutes.

# Viewing an External Signal Source

#### Selecting the Signal Source

Use the remote control to switch between viewing signals from connected equipment, such as VCRs, DVD, Set-Top box and the TV source (broadcast or cable).



Make sure that the remote control is controlling the TV set. Press the MODE button ΤV and make sure that the "TV" LED is illuminated. Press TV/VIDEO on the Antenna Video1 Video2 Video3 S-Video3 S-Video3 Compane Compane Compane DVI PC remote control, and the fol-

- lowing on-screen menu will appear.
- Move the joystick up or down to select a particular signal source, and then press the joystick to activate it.

Antenna Video1 Video2 Video3 S-Video1 S-Video2		Connected Not connect Not connect Not connect Not connect	ted ted
S-Video3 Component 1 Component 2 Component 3 DVI PC		Not connect Not connect Not connect Not connect Not connect Not connect	ted ted ted
≜ Mone	▶ Enter	TV/Mdeo I	Exit

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When you connect equipment to the TV, you can choose between the following sets of jacks: Video 1, Video 2, S-video 1, S-video 2, Component 1, Component 2, Component 3, DVI or PC on the TV's rear panel, and Video 3 or S-Video 3 on the TV's side panel.

#### **Remote Control VCR/DVD Buttons**

Flip the cover of the remote control up to access buttons that can control the tape functions of a connected VCR or DVD, including Rewind, Play, Fast Forward, Stop and Pause.

Flip the cover of your remote control unit for access to the tape function controls. Press the appropriate buttons to control your VCR or DVD

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# **Special Features**

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# Setting Up Your Remote Control

This TV's remote control can operate almost any VCR, cable box, or DVD. After it has been set up properly, your remote control can operate in four different modes: TV, VCR, Cable, or DVD. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

#### Note

The remote control might not be compatible with all DVD Players, VCRs and Cable boxes.



_	ting Up the Remote to Operate Your VCR Turn off your VCR.
I.	

- Press the Set button on your TV's remote control.
- Using the number buttons on your remote Δ control, enter three digits of the VCR code listed on page 51 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- Press the Power button on the remote 5 control. Your VCR should turn on if your remote is set up correctly.

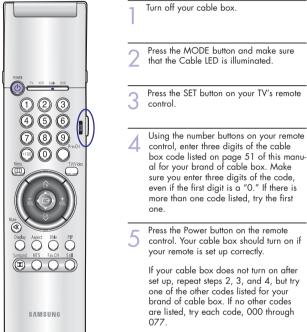
If your VCR does not turn on after set up, repeat steps 2, 3, and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 089.

#### Note on Using Remote Control Modes: VCR

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When your remote control is in "VCR" mode, the volume buttons still control your TV's volume.

#### Setting Up the Remote to Operate Your Cable Box



Press the Power button on the remote control. Your cable box should turn on if

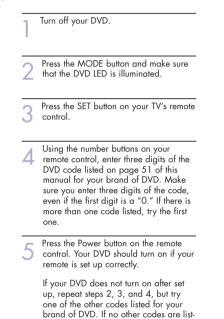
If your cable box does not turn on after set up, repeat steps 2, 3, and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through

#### Note on Using Remote Control Modes: Cable Box

• When your remote control is in "Cable Box" mode, the volume buttons still control your TV's volume.

#### Setting Up the Remote to Operate Your DVD





ed, try each code, 000 through 008.

# **Remote Control Codes**

#### VCR Codes

Admiral 006, 079	KLH 073	RCA 000, 005, 007, 008, 028,
Aiwa 015	LG 009, 014, 046, 060	035, 037, 054, 069
Akai 017, 022, 023, 027, 030	Lloyd 015	Samsung 007, 013, 022, 032, 042, 077
Audio Dynamics 014, 016	Logik 031	Sansui 016
Bell & Howell 002	LXI 015	Sanyo 002, 012
Broksonic 010	Magnavox 008, 029, 053, 056	Scott 013, 041, 049, 068
Candle 007, 009, 013, 045, 046, 052	Marantz 002, 008, 014, 016,	Sears 002, 005, 009, 012, 018,
Cannon 008, 053	029, 030, 046, 061	019, 035, 043, 048
Citizen 007, 009, 013, 045, 046, 052	Marta 009	Sharp 006, 027, 039, 045
Colortyme 014	MEI 008	Shintom 017, 026, 031, 055
Craig 007, 012	Memorex 008, 009, 012, 015	Signature 015
Curtis-Mathes 000, 007, 008, 014,	MGA 027	Sony 017, 026, 038
015, 046, 053, 064, 067	Midland 032	Sylvania 008, 015, 029, 053, 056
Daewoo 013, 045, 076	Minota 005, 035	Symphonic 015
DBX 014,016	Mitsubishi 005, 027, 035, 040	Tandy 002, 015
Dimensia 000	Montgomery ward 006	Tashiko 009
Dynatech 015	MTC 007, 015	Tatung 030
Electrohome 027	Multitech 007, 015, 031, 032	Teac 015, 030, 069
Emerson 008, 009, 010, 013, 015, 020, 023, 027,	NEC 002, 014, 016, 030, 046, 061, 064	Technics 008
034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070	Optimus 006	Ternika 008, 009, 015, 021
Fisher 002, 012, 018, 019, 043, 048, 058	Panasonic 008, 053, 075, 077	TMK 067
Funai 015	Pentax 005, 035	Toshiba 005, 013, 019, 048, 049
GE 000, 007, 008, 032, 053	Pentex Reserch+ 046	Totevision 007,009
Go Video 007	Philco 008, 029, 053, 056	Unitech 007
Harman Kardon 014	Philips 008, 029	Vector Research 014, 016
Hitachi 005, 015, 035, 036	Pioneer 005, 016, 033, 050	Victor 016
Instant Replay 008	Portland 044, 045, 052	Video Concepts 014, 016
JC Penney 002, 005, 007, 008, 014,	ProScan 000	Videosonic 007
016, 030, 035, 051, 053	Quartz 002	Wards 005, 006, 007, 008, 009,
JCL 008, 002, 014, 016, 030, 046	Quasar 008, 053	012, 013, 015, 027, 031, 035
JVC 002, 014, 088, 089	Radio Shack/Realistic 002, 006, 008,	Yamaha 002, 014, 016, 030, 046
Kenwood 002, 014, 016, 030, 046	009, 012, 015, 019, 027, 045, 053	Zenith 011, 017, 026, 079

#### **Cable Box Codes**

Anvision 007, 008	NSC 009	Signature 046
Cablestar 007, 008	Oak 016, 038	Sprucer 027
Eagle 007, 008	Osk Sigma 016	Starcom 046
Eastern Int. 002	Panasonic 003, 027, 039, 061,	Stargate 2000 058
General Instrument 046	073, 074	Sylvania 011, 059
GI 004, 005, 015, 023, 024,	Philips 007, 008, 019, 021, 026,	Texscan 011, 059
025, 030, 036, 067, 068, 069	028, 029, 032, 033, 040, 041	Tocom 017, 021, 049, 050, 055, 073
Hamlin 003, 012, 013, 034, 048	Pioneer 018, 020, 044, 074, 077	Unika 031, 032, 041
Hitachi 037, 043, 046	Randtek 007, 008	Universal 051, 052
Jerroid 004, 005, 015, 023, 024,	RCA 000, 027, 066	Viewster 007, 008, 019, 021, 026,
025, 030, 036, 046, 062, 065	Regal 003, 012, 013	028, 029, 032, 033, 040, 041
Macom 037, 043	Regency 002, 033	Warner Amex 044
Magnavox 007, 008, 019, 021,	SA 070, 071, 072	Zenith 014, 042, 057, 061,
026, 028, 029, 032, 033, 040, 041	Samsung 044, 003, 022, 063, 064	075,076

#### DVD Codes

Philips	001
Proscan	002
RCA	002
Toshiba	003
Panasonic	004
Sony	008
Samsung	000

#### Note on Using Remote Control Modes: DVD

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• When your remote control is in "DVD" mode, the volume buttons still control your TV's volume.

# **Fine Tuning Channels**

Fine tuning lets you manually adjust the TV's tuner if you have difficulty tuning in a channel.

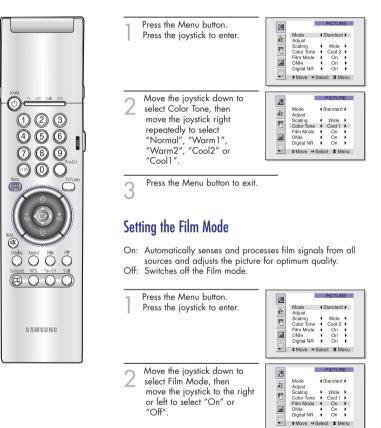


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Using the number buttons on 11 the remote control, select the channel you want to fine tune. Press the Menu button on the SETUP 쁘 Channel Setup Closed Caption Time Language (English) Melody (Off) Blue Screen (Off) V-chip remote control. Move the joy-# 15 stick down to select SETUP, then press the joystick to SETUP Press the joystick to enter in 連
産
管 Antenna A A Air or CATV AIR Favorite Channel Auto Channel Memory Fine Tune O Add/Erase Labeling ----the Channel setup menu. Abeling
 Advertised
 Adve Move the joystick down to CETHD **三** 雍 昭 Antenna A Air or CATV AIR Favorite Channel Auto Channel Memory Fine Tune + 3 0 select the Fine tune, then move the joystick right or left to adjust the fine tuning. Fine Tune ◀ + 3 ♡ ► Add/Erase Labeling ◀ ---- ► ● Addierase ● Adjust IDMenu To store the fine tuning setting in the TV's memory, move the joystick up. (A heart icon will appear.) To reset the fine tuning to "0," move the joystick down

Press the Menu button to exit.

# Selecting the Color Tone



Press the Menu button to exit.

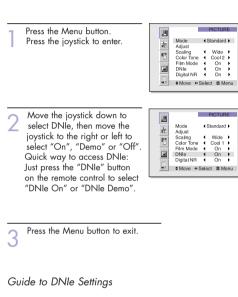
- Solution State State
  - 480i only.

# DNIe<sup>™</sup> (Digital Natural Image engine) **DNIe<sup>™</sup>**

Samsung's New Technology enables an improved image with detail, contrast and white enhancement and 3D noise reduction.



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- On: Switches on the DNIe mode.
- Demo: The screen before applying DNIe appears on the right and the screen after applying DNIe appears on the left.



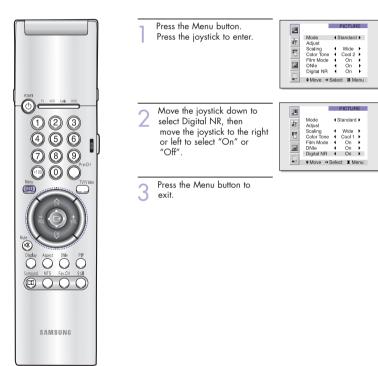
• Off: Switches off the DNIe mode.

#### NOTE

The DNIe function doesn't operate in the PC and DVI modes.

# **Digital Noise Reduction**

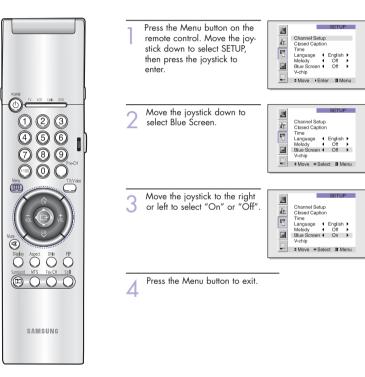
If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.



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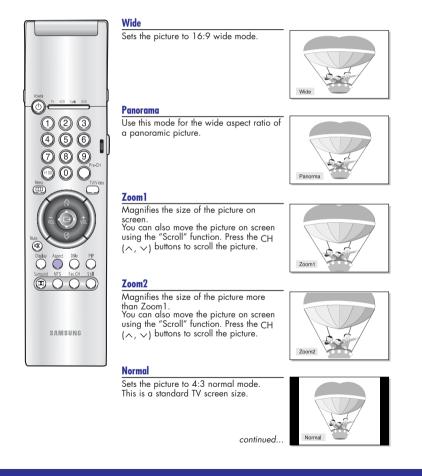
# Setting the Blue Screen Mode

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue screen" mode to "Off".



# Changing the Screen Size

When you press the ASPECT button on the remote control, the TV's screen mode choices appear in sequence. The screen displays in this order: Wide, Panorama, Zoom1, Zoom2, Normal. The name of the screen mode will be displayed at the bottom of the TV screen.



#### NOTES

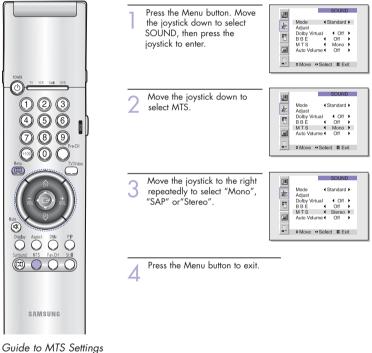
58

- You can select only Wide, Normal(4:3) screen size in the Component Mode.
- Screen size can't be changed in the DVI and PC (1080i) mode.
- You can select Wide(TV), Wide(PC) screen size in the DVI and PC (720p) Mode.
- You can select Wide(TV), Wide(PC), Normal(4:3) screen size in the DVI and PC (480p) Mode.
- If you set PIP ON in any mode (Normal, Panorama, Zoom1, Zoom2) except Wide, the mode will automatically change to Wide.

# **Special Audio Options**

#### **MTS Settings: Choosing a Soundtrack**

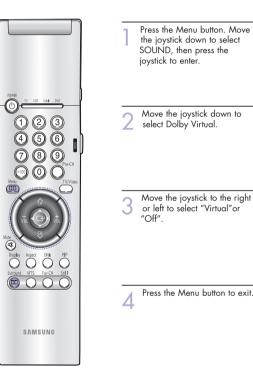
Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)



- Choose Stereo for channels that are broadcasting in stereo.
- Choose Mono for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose SAP to listen to the Separate Audio Program, which is usually a foreign-language translation.

#### **Dolby Virtual**

This feature allows the TV's L/R speakers to provide a home Theater-like Dolby effect. The center and surround sounds are mixed into the L/R speakers.



#### NOTE

• Dolby Virtual and BBE can't be set ON at the same time.

#### BBE

SOUND

SOUND

SOLIND

Mode (Standard) Adjust Dolby Virtual (Off) B B E (Off) M T S (Mono) Auto Volume (Off)

• Move • Select II Exit

Move • Select II Exit

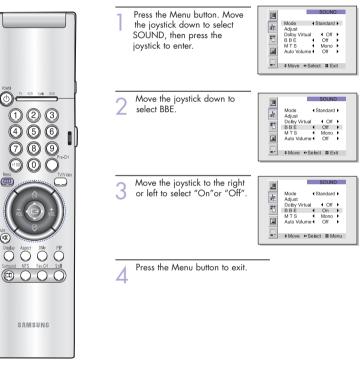
Mode (Standard) Adjust Dolby Virtual (Off) B B E (Off) M T S (Mono) Auto Volume (Off)

Move • Select II Exit

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]]] ] ] ] ] BBE is a built-in effect that adds clarity, punch and dynamics to the sound.



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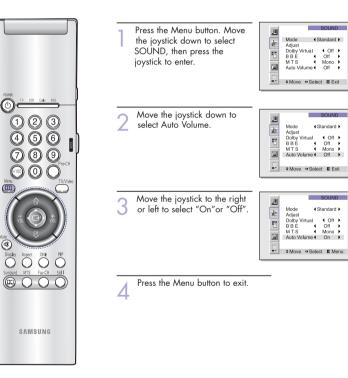
#### NOTE

• Dolby Virtual and BBE can't be set ON at the same time.

#### **Auto Volume**

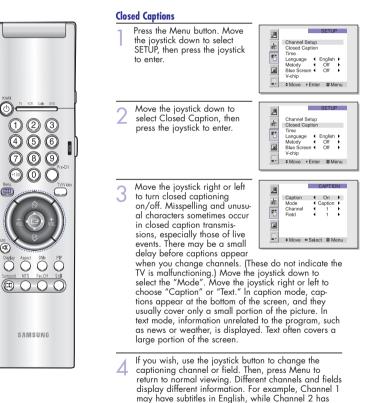
62

Each broadcasting station has its own signal conditions, and it is inconvenient to adjust the volume every time the channel is changed. "Auto volume" automatically adjusts the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.



# **Viewing Closed Caption Information**

Your TV decodes and displays the closed captions information that is broadcast along with some television shows. These captions are usually subtitles for the hearing impaired or translations into other languages. All VCRs record the closed caption signal from television programs, so prerecorded video tapes can also deliver closed-caption information. Check for the closed caption symbol (ICE) on the tape's package or your TV program-schedule.



subtitles in Spanish.

NOTE

• The Caption function doesn't operate in Zoom1, Zoom2.

# **Viewing Picture-in-Picture**

One of the most best features of your TV is the Picture-in-Picture (PIP) feature. The advanced PIP system allows you to watch two different pictures at once, even if you don't have a VCR connected to your TV.



	Press the Menu button. Move the joystick down to select PIP, then press the joystick to enter. Quick way to access PIP: Just press "PIP" on the remote control.	Select 4 Off →
2	Move the joystick right to select PIP "On". The PIP image will appear in the corner of the screen.	Select On S Source TV S Swap Size Large Channel V An S Sound Select Mann S Sound Select Mann S

#### NOTES

• Picture-in-Picture doesn't function when the V-chip is active.

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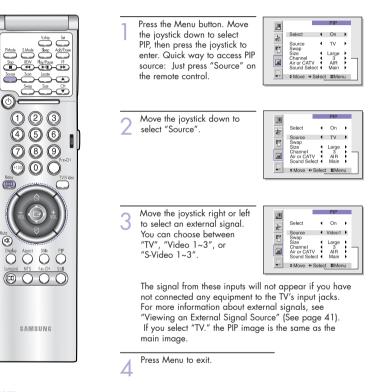
 If you turn the TV off while watching and turn it on again, then the mode will return to normal video.

Press Menu to exit.

• Screen size can't be changed in the PIP mode.

### Selecting an External Signal

You can use PIP to view a signal from an external source, such as a VCR.



#### NOTE

 The PIP subscreen doesn't support ANT-B, Component1, Component2, Component3, PC, and DVI.

#### Selecting a Signal Source (Antenna or Cable) for PIP

If the PIP source is TV during PIP ON, you can select the broadcasting source of PIP picture separately from the main picture. (If the main picture is ANT-B and the broadcasting sources are different, making adjustments is necessary.)

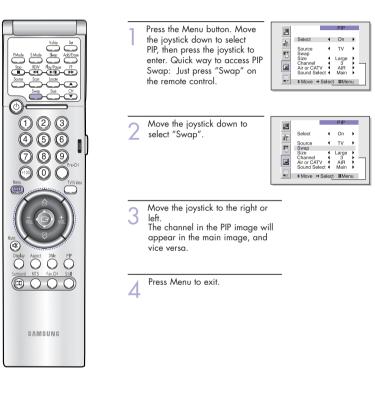


66

1	Press the Menu button. Move the joystick down to select PIP, then press the joystick to enter.	B         Select         On >           B         Seurce         TV >           Source         TV >         Seven           Channel         Large >         Asurce           Source         Large >         Asurce           Source         Seven >         Large >           Source         Large >         Asurce           Source         Seven >         Large >           Source         Seven >         Seven >           Source         Seven >         Seven >           Source         Seven >         Seven >           Sourd Select         Main >         >           Source         Select         Menu
	Maria tha investor alover to	qq
2	Move the joystick down to select "Air or CATV".	Select On Source TV Source TV Swap Large Air of Channel S Air of CATV Air S Swap Select Man Air
3	If an antenna is connected, the setting is "AIR." If a Cable TV system is providing the sig- nal, move the joystick to the left or right until the appropri- ate type of cable system is displayed ("STD," "HRC," or "IRC").	Select On Source TV Source Control CATV AIR Source Control CATV AIR Source Control CATV AIR Source Source CATV AIR Source Select Main Select Select Main Select Select Main Select Selec

Press Menu to exit.

### Swapping the Contents of the PIP and Main image



#### NOTE

• When ANT-B, Component mode, PC, or DVI is selected, the PIP Swap function doesn't work.

#### Changing the Size of the PIP image



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Press the Menu button. Move the joystick down to select PIP, then press the joystick to enter. Quick way to access PIP Size: Just press "Size" on the remote control.

Move the joystick down to

select "Size".



Source Swap Size Channel Air or CATV Sound Select

Move • Select @Menu

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de:

-5

PIP

I TV 1

Large

AIR Main

Select 

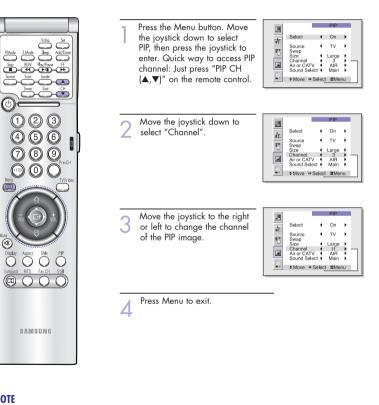
On

Move the joystick to the right 0 直 非 昭 回 or left to select "Large", ∢ On ≯ Select Source TV Swap Size Double1 Channel 3 Air or CATV AIR Sound Select Main "Double1", "Double2" or "Small". Note: Double function doesn't + Move + Select IIMenu operate In the Component, PC, DVI mode.

Press Menu to exit. 4

#### **Changing the Picture-in-Picture Channel**

After you set the PIP signal source (antenna or cable), it is easy to change channels.



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#### NOTE

• The PIP channels are not available when RF is set to ANT-B. (The PIP channels link to ANT-A).

#### Selecting the Sound Source

You can use this feature to hear sound from the Main or PIP screen.



Press the Menu button, Move the joystick down to select PIP, then press the joystick to enter.



4 On

♦ TV

Large

Sound Select 4 Main Move · Select @Menu

AIR

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Source Swap Size Channel Air or CATV

Move the joystick down to select "Sound Select".

Move the joystick to the right or left to switch Main or Sub audio source. Main is for the main TV picture audio, and Sub is for the PIP picture audio.

Press Menu to exit.

#### Changing the Location of the PIP image

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Press the Locate button repeatedly to move the PIP image from corner to corner on the screen.

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↓		1
	→	

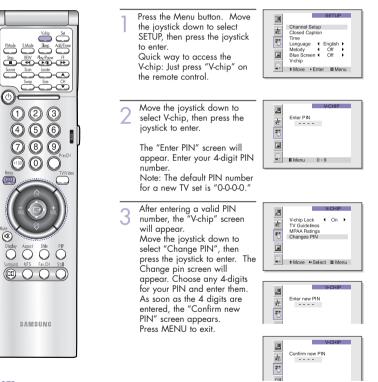
# Using the V-Chip

The V-Chip feature automatically locks out programming that is deemed inappropriate for children

The user must first enter a PIN (personal ID number) before any of the V-Chip restrictions can be set up or changed.

Note: The V-chip doesn't function when the Picture-in-Picture is active.

#### Setting Up Your Personal ID Number (PIN)



#### NOTE

• If you forget the PIN, press the remote-control keys in the following sequence, which resets the pin to 0-0-0: POWER OFF  $\rightarrow$  Mute  $\rightarrow$  8  $\rightarrow$  2  $\rightarrow$  4  $\rightarrow$  POWER ON.

#### How to Enable/Disable the V-Chip



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Press the Menu button. Move ١Ŭ the joystick down to select Enter PIN 折 SETUP, then press the 13 joystick to enter. Move the joystick down to 🛄 Menu 0-9

select V-chip, then press the iovstick to enter. The "Enter PIN" screen will appear. Enter your 4-digit PIN number.

The "V-Chip" screen will appear, and "V-Chip Lock" will be selected. To enable the V-Chip feature. move the joystick right so that the "V-Chip Lock" field is On. (Moving the joystick to the right or left will alternate between On and Off.)



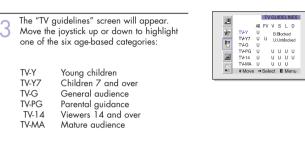
How to Set up Restrictions Using the "TV guidelines"

First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

Press the Menu button. Move the joy-<u>Di</u> stick down to select SETUP, then press Enter PIN de de ---the joystick to enter. 85 Move the joystick down to select V-chip, then press the joystick to enter. The "Enter PIN" screen will appear. Enter your 4-digit PIN number. The "V-Chip mode" screen will appear. Move the joystick down to select "TV 幸 guidelines", then press the joystick to 84 enter







Note: These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else). The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

At this point, one of the TV-Ratings is selected. Move the joystick right: Depending on your existing setup, a letter "U" or "B" will be selected. (U: Unblocked, B: Blocked).

init.			TV	G	JID	EU	NES
<u> 1</u>		All	FV	٧	s	L	D
de la	TV-Y	U		В	Blo	cke	d d
-	TV-Y7	U	U	ū	Un	bloc	- ked
-15	TV-G	U					
-	TV-PG	U		U	U	U	U
	TV-14	U		U	U	U	U
100	TV-MA	U		U	U	U	
-	\$ Select	1 0	Mo	ve	D	Me	nu

Move the joystick down or up to block or unblock the category. Move the joystick to the right. To select a different TV-Rating, move the joystick down or up and then repeat the process.

Note 1: TV-Y7, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings: FV:Fantasy violence, D:Dialog, L:Language, S:Sexual situation, V:Violence .

Note 2: The V-Chip will automatically block certain categories that are "more restrictive." For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

Continued..

How to set the FV, D, L, S and V sub-ratings: First, select one of these TV-Ratings: TV-Y7,
 TV-PG, TV-14 or TV-MA (See Step 4, on previous page.)
 Next, while the TV-Rating is selected, repeatedly move the joystick right.
 This will cycle through the available sub-ratings (FV, L, S, D or V). A letter ("U" or "B") will

be displayed for each sub-rating. While the  $\tilde{''}U''$  or ''B'' is selected, move the joystick down or up to change the sub-rating.

Note: The V-chip will automatically block certain categories that are "More restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

Press the Menu button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

#### How to Set up Restrictions Using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. [Eventually, movie videocassettes will be encoded with MPAA ratings.] When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings [either MPAA or TV-Ratings].



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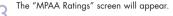
Press the Menu button. Move the joystick down to select SETUP, then press the joystick to enter.

CHP The PIN The PIN

Move the joystick down to select the V-chip, then press the joystick to enter. The "Enter PIN" screen will appear. Enter your 4-digit PIN number.

The "V-Chip" screen will appear. Move the joystick down to select "MPAA rating", then press the joystick to enter.







Repeatedly move the joystick down to highlight a particular MPAA category. The MPAA categories are as follows.



- G General audience (no restrictions).
- PG Parental guidance suggested.
- PG-13 PG-13 (Parents strongly cautioned).
- R R (Restricted. Children under 17 should be accompanied by an adult).
- NC-17 No children under age 17.
- X X (Adults only).
- NR Not rated.

While a particular category is highlighted, move the joystick to the right to activate it. A letter ("U" or "B") will be displayed. Move the joystick down or up to select "U" or "B". Press Menu button to save the settings and to clear all screens.

Note: The V-Chip will automatically block any category that is "more restrictive." For example, if you block the "PG-13" category, then "R", "NC-17", and "X" will automatically be blocked also.

#### How to Reset the TV after the V-Chip Blocks a Channel ("Emergency Escape")

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear: "Excessive rating."

To resume normal viewing, tune to a different channel using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V-Chip button for an "emergency escape":

Press the Menu button. Move the joystick down to select "SETUP", then press the joystick to enter. Move the joystick down to select "V-chip", then press the joystick to enter. Enter your PIN number, and move the joystick right to temporarily disable the V-Chip Lock. Ð

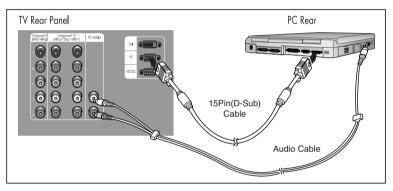
**PC Display** 

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# Using Your TV as a Computer (PC) Display

#### How to connect Your PC to the TV

Note: This figure shows the Standard Connector-jack panel. The actual configuration on your TV may be different, depending on the model.



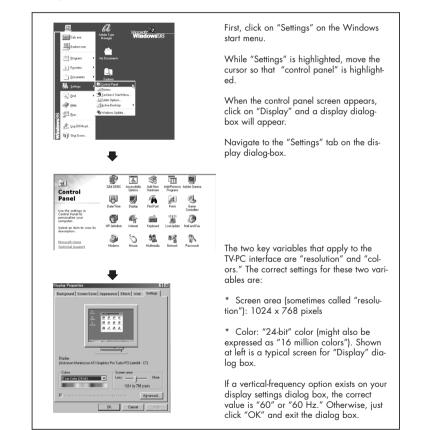
#### NOTE

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Jack RS232C is for repair and software upgrade.

#### How to Set up Your PC Software (Windows only)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic setup information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)



continued...

#### **Display Modes**

Mode	Resolution	Total	Hor. Freq	Polarity	Ver. Freq	Polarity	Pixel Clock	Sep	Com	SOG
VGA	640x350	800x449	31.47 kHz	Р	70.00 Hz	Ν	25.175 MHz	0	0	х
	720x400	900x449	31.47 kHz	Ν	70.00 Hz		28.322 MHz	0	0	х
	720x400	936x446	37.93 kHz	N	85.00 Hz	Р	35.5 MHz	0	0	х
	640x480	800x525	31.47 kHz	N	60.00 Hz	Р	25.175 MHz	0	0	х
	640x480	864x525	35.00 kHz	N	66.70 Hz	Ν	30.24 MHz	0	0	x
	640x480	832x520	37.86 kHz	Ν	72.80 Hz	N	31.5 MHz	0	0	х
	640x480	840x500	37.50 kHz	Ν	75.00 Hz	Ν	31.5 MHz	0	0	х
	640x480	832x509	43.27 kHz	Ν	85.00 Hz	Ν	36 MHz	0	0	х
SVGA	800x600	1024x625	35.16 kHz	N/P	56.30 Hz	N	36 MHz	0	0	х
	800x600	1056x628	37.88 kHz	Р	60.30 Hz	N/P	40 MHz	0	0	х
	800x600	1040x666	48.08 kHz	Р	72.20 Hz	Р	50 MHz	0	0	х
	800x600	1056x625	46.87 kHz	Р	75.00 Hz	Р	49.5 MHz	0	0	х
	800x600	1048x6321	53.67 kHz	Р	85.10 Hz	Р	56.25 MHz	0	0	х
	832x624	1152x667	49.73 kHz	Ν	74.60 Hz	Р	57.284 MHz	0	0	х
XGA	1024x768	1344x806	48.36 kHz	Ν	60.00 Hz	Ν	65 MHz	0	0	х
	1024x768	1328x806	56.40 kHz	Ν	70.10 Hz	Ν	75 MHz	0	0	х
	1024x768	1312x800	60.02 kHz	Р	75.00 Hz	Ν	78.75 MHz	0	0	х
DTV	1920x1080i	2200x1125	33.75 kHz	Х	60.00 Hz	Р	74.25 MHz	0	х	х
	1280x720p	1650x750	45.00 kHz	Х	60.00 Hz	Х	74.25 MHz	0	х	х
	720x483p	858x525	31.47 kHz	Х	60.00 Hz	Х	27 MHz	0	х	х

#### NOTE

Both screen position and size will vary, depending on the type of PC monitor and its resolution. The table above shows all of the display modes that are supported:

\* The interlace mode is not supported.

\* The TV will operate abnormally if a non-standard video format is selected.

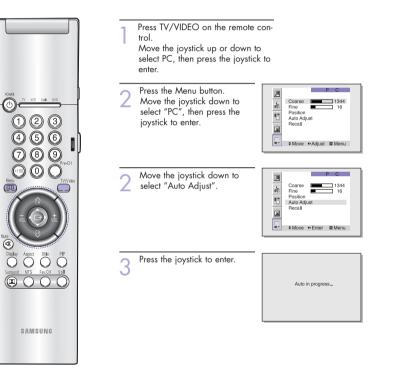
#### NOTES

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- When this TV is used as a PC display, 32-bit color is supported (over 16 million colors).
- Your PC display screen might appear different, depending on the manufacturer (and depending on your particular version of Windows). Check your PC instruction book for information about connecting your PC to a TV display-monitor.
- Same modes as PC are supported for the signal input to the DVI jack. Only a separate sync signal is supported.

# How to Set up Your TV as a PC display

"Auto Adjust" allows the TV to self-adjust to the incoming video signal. The values of fine, coarse and position are adjusted automatically.



# **Picture Quality Adjustment**

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by fine tuning alone, then do the frequency adjustments to the utmost and fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

Press TV/VIDEO on the remote

**Frequency Adjustment** 

control.

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Coarse     P     C     P     P     C     P     P     C     P     P     C     P     P     C     P
Coarse 1345

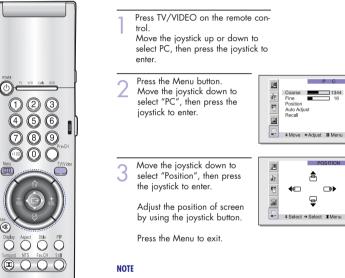
#### **Fine tuning**

Move the joystick down to select "Fine". Remove picture noise (vertical stripes) on the screen by moving the joystick right or left. (If phase is not set properly, the picture may be blurry.)

Press the Menu to exit.

# Changing the Position of the Image (Moving left, right, up and down)

After connecting the TV to your PC, adjust the position of screen if it is not well-aligned.



• If a PC signal is input to DVI, you can't adjust the quality and position of picture.

#### To Initialize the Screen Position and Picture Quality Adjustment

After steps 1~2 above are completed, move the joystick down to select Recall. Press the joystick to initialize the screen position and picture quality.



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#### NOTE

• When 'Recall' is active, the TV screen will become black and return to the original view about five seconds later. (This is a normal operation.)

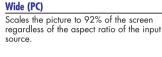
# Changing the Screen Size (PC mode)

When you press the ASPECT button on the remote control, the TV's screen mode choices appear in sequence. The screen displays in this order: Wide(TV), Wide(PC),Expand, Normal. The name of the screen mode will be displayed at the bottom of the TV screen.



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Wide (TV) Scales the picture to the size of the TV screen regardless of the aspect ratio of the input source. Wide (TV





Scales the picture to the aspect ratio of the input source.



#### Normal

Displays the picture as it is without chang-ing the aspect ratio of input source.



#### Aspect Supported settings

Source (PC/DVI)	Aspect
1920 x 1080i	Wide(TV)
1280 x 720	$Wide(TV) \rightarrow Wide(PC)$
1024 x 768	$Wide(TV) \rightarrow Wide(PC) \rightarrow Expand$
720 x 483 (480p)	$Wide(TV) \rightarrow Wide(PC) \rightarrow Normal$
Others	$Wide(TV) \rightarrow Wide(PC) \rightarrow Expand \rightarrow Normal$

#### NOTES

- In VGA (640x480) and SVGA (800x600) modes, the Wide(TV), Wide (PC), Expand and Normal screen modes are available.
- In XGA (1024x768) mode, the Wide (TV), Wide (PC) and Expand screen modes are available.

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Appendix

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# Appendix

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# Troubleshooting

Before you call a service technician, please scan this list of problems and possible solutions. It may save you time and money.

Problem	Possible Solution
Poor picture quality.	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality or no sound.	Try another channel. Adjust the antenna. Make sure the "Mute" button is off.
No picture or sound.	Try another channel. Press the TV/Video button. Make sure the TV is plugged in. Check the antenna connections.
No color or wrong colors.	Make sure the program is broadcasted in color. Adjust the picture settings.
Picture rolls vertically.	Adjust the antenna. Check all wire connections. If you are using a VCR, check the tracking.
Erratic operation, or intermittent failure.	Unplug the TV for 30 seconds, then try again.
Remote control failure.	Press the "Mode" button to put your remote control into "TV" mode. Make sure the remote has batteries.
TV won't switch on.	Make sure the wall outlet is working. Make sure the remote has batteries.

The display panel used for the DLP Projection TV is composed of many tiny pixels. These, pixels
may occasionally appear on the screen.

# Care and Maintenance

With proper care, your TV will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

#### Placement

- Do not put the TV near extremely hot, cold, humid or dusty places.
- Do not put the TV near appliances that create magnetic fields.
- Keep the ventilation openings clear.
- Do not place the TV on a rough and slanted surface, such as cloth or paper. (The screen top might be cut off or the screen center might be tilted.)

#### Liquids

• Do not handle liquids near or on the TV.

#### Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.
- This DLP Projection TV projects the image onto a large screen by applying an optical system. If you place the TV set face down, it might cause a problem because dirt, or some other contaminant may become attached to the inside of the TV set.

#### Temperature

 If your TV is suddenly moved from a cold to a warm place, unplug the power cord for at least two hours so that moisture that may have formed inside the unit can dry completely.

# Using the TV in Another Country

If you plan to take your TV to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

## **Specifications**

Model	HLN4365W/HLN437W	HLN5065W/HLN507W	HLN617W	HLN467W	HLN567W
Voltage	AC 120V	AC 120V	AC 120V	AC 120V	AC 120V
Frequency of Operation	60Hz	60Hz	60Hz	60Hz	60Hz
Power Consumption	200 watts	200 watts	200 watts	200 watts	200 watts
Dimension	1029 x 399 x 755 mm	1184 x 444 x 859 mm	1436 x 489 x 1021mm	1047 x 399 x 779 mm	1268 x 461 x 924mm
(W x D x H)	40.5 x 15.7 x 29.7 inches	46.6 x 17.5 x 33.8 inches	56.5 x 19.3 x 40.2 inches	41.2 x 15.7 x 30.6inches	49.9 x 18.1 x 36.4 inches
Weight	30.5 Kg / 67.2 lbs	35.2 Kg / 77.6 lbs	46.2 Kg / 101.9 lbs	33.5 Kg / 73.8 lbs	41.5 Kg / 91.5lbs

Memo

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